

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of forming a piconet in a wireless communications device, the method comprising:
 - transmitting a beacon packet from the wireless communications device across a wireless channel during a first predetermined time interval;
 - scanning the wireless channel from the wireless communications device for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;
 - receiving a piconet joining request packet from a remote wireless communications device during the second predetermined time interval; and
 - transmitting a confirmation packet to the remote wireless communications device during a third predetermined time interval, the third predetermined time interval immediately following the second predetermined time interval and before transmitting a second beacon packet.
2. (Original) The method of claim 1, wherein the piconet joining request includes a request for a role switch.
3. (Original) The method of claim 2, further comprising receiving a beacon packet from the remote wireless communications device.
4. (Original) The method of claim 1, wherein the beacon packet, the piconet joining request packet, and the confirmation packet each include one or more OFDM symbols.
5. (Original) The method of claim 1, wherein the wireless channel employs a frequency hopping pattern.
6. (Previously Presented) A method in a wireless communications device, comprising:

transmitting a first beacon packet from the wireless communications device across a wireless channel during a first predetermined time interval;

scanning the wireless channel from the wireless communications device for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;

receiving a request for additional information from a remote wireless communications device during the second predetermined time interval; and

transmitting the additional information with a second beacon packet across the wireless channel.

7. (Original) The method of claim 6, wherein the additional information includes available services from the wireless communications device.

8. (Original) The method of claim 6, wherein the additional information includes identifiers of devices that are in a piconet with the wireless communications device.

9. (Original) The method of claim 6, wherein the wireless channel employs a frequency hopping pattern.

10. (Previously Presented) A wireless communications device, comprising:
means for transmitting a beacon packet across a wireless channel during a first predetermined time interval;

means for scanning the wireless channel for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;

means for receiving a piconet joining request packet from a remote wireless communications device during the second predetermined time interval; and

means for transmitting a confirmation packet to the remote wireless communications device during a third predetermined time interval, the third predetermined time interval immediately following the second predetermined time interval and before transmitting a second beacon packet.

11. (Original) A wireless communications device, comprising:

means for transmitting a first beacon packet across a wireless channel during a first predetermined time interval;

means for scanning the wireless channel for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;

means for receiving a request for additional information from a remote wireless communications device during the second predetermined time interval; and

means for transmitting the additional information with a second beacon packet across the wireless channel.

12. (Previously Presented) A wireless communications device, comprising:

means for monitoring a wireless channel for transmissions during a predetermined time interval;

means for receiving a beacon packet from a remote wireless communications device across the wireless channel during the predetermined time interval; and

means for, immediately following receipt of the beacon packet, sending a response packet to the remote wireless communications device without associating with the remote wireless communications device when the remote wireless communications device is the only device transmitting device during the predetermined time interval.

13. (Previously Presented) A system for forming a piconet of a plurality of wireless communications devices, the system comprising:

a beacon-transmitting device that transmits a beacon packet across a wireless channel during a first predetermined time interval; and

a remote wireless communication device that receives the beacon packet and transmits a piconet joining request during a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval and,

wherein the beacon-transmitting device receives the piconet joining request packet during the second predetermined time interval and transmits a confirmation packet to the remote wireless communications device during a third predetermined time interval, the third predetermined time interval immediately following the second predetermined time interval and before transmitting a second beacon packet.

14. (Previously Presented) The system of claim 13, wherein the piconet joining request includes a request for a role switch.

15. (Previously Presented) The system of claim 14, wherein the remote wireless communications device transmits the beacon packet and the beacon-transmitting device receives the beacon packet.

16. (Previously Presented) The system of claim 13, wherein the beacon packet, the piconet joining request packet, and the confirmation packet each include one or more OFDM symbols.

17. (Previously Presented) The system of claim 13, wherein the wireless channel employs a frequency hopping pattern.

18. (New) The device of claim 10, wherein the piconet joining request includes a request for a role switch.

19. (New) The device of claim 12, wherein the piconet joining request includes a request for a role switch.

20. (New) The method of claim 6, wherein the second beacon packet comprises a beacon extension.